

0011



State of Utah

JON M. HUNTSMAN, JR.
Governor

GARY HERBERT
Lieutenant Governor

Department of
Environmental Quality

William J. Sinclair
Acting Executive Director

DIVISION OF WATER QUALITY
Walter L. Baker, P.E.
Director

C/607/041 Incoming
C/015/032
CC: Steve C.

February 17, 2009

Mr. Bruce Hill, President & CEO
Mr. David Shaver, Resident Agent
UtahAmerican Energy, Inc.
P.O. Box 910
East Carbon, UT 84520-0910

Subject: Inspection Reports – UPDES Permit Nos. UT0025640 (West Ridge Mine) and
UT0024368 (Crandall Canyon Mine).

Dear Mr. Hill and Mr. Shaver:

On February 3, 2009 I met with you and your authorized agent, Ms. Karla Knoop and conducted Reconnaissance and Compliance Sampling Inspections in regards to your UPDES Permit facilities referenced above. Specifically we discussed the current status and corrective action plans for each facility before sampling the discharging outfalls.

Enclosed are copies of the inspection reports for your records. Please review the "Deficiencies" and "Requirements" sections of each report and contact me with any questions. I appreciate your efforts to facilitate the inspection and keep me informed of the operations. If you have any questions, please contact me at (801) 538-6779 or by e-mail at jstudenka@utah.gov.

Sincerely,

Jeff Studenka, Environmental Scientist
UPDES IES Section

Enclosures

cc (w/encl): Darcy O'Connor, EPA Region VIII
Claron Bjork, SE District Health Department
Dave Ariotti, SE District Engineer
Daron Haddock, Division of Oil Gas & Mines

RECEIVED

FEB 19 2009

DIV. OF OIL, GAS & MINING

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Water Compliance Inspection Report

Section A: National Data System Coding (i.e., ICIS)

Transaction Code		NPDES									yr/mo/day						Inspection Type		Inspector		Fac. Type	
N		U	T	0	0	2	5	6	4	0	0	9	0	2	0	3	S	S	2			
1	2	11									12						18		19		20	
Remarks																						
<div> <div>Inspection Work Days</div> <div>67</div> <div>2</div> <div>69</div> </div> <div> <div>Facility Self-Monitoring Evaluation Rating</div> <div>4</div> <div>70</div> </div> <div> <div>BI</div> <div>N</div> <div>71</div> </div> <div> <div>QA</div> <div>N</div> <div>72</div> </div> <div> <div>Reserved</div> <div>73</div> <div>74</div> <div>75</div> <div>76</div> <div>77</div> <div>78</div> <div>79</div> <div>80</div> </div>																						
66																						

Section B: Facility Data

Name and Location of Facility Inspected (For industrial users discharging to POTW, also include POTW name and NPDES permit number)		Entry Time/ Date 9:25 am/ 2-3-2009		Permit Effective Date 5-1-2006	
West Ridge Resources, West Ridge Mine 794 North "C" Canyon Road, Carbon County, UT		Exit Time/ Date 10:35 am / 2-3-2009		Permit Expiration Date 4-30-2011	
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s)		Other Facility Data (e.g., SIC NAICS, and other descriptive information)			
Dave Shaver, Resident Agent, West Ridge Mine, (435) 888-4017 Karla Knoop, Hydrologist & Authorized Agent, jbr Environmental Consultants, Inc. phone (435) 637-9645, fax (435) 637-8679		Bituminous Coal Underground Mining Facility SIC Code 1222 NAICS 212112			
Name, Address of Responsible Official/Title/Phone and Fax Number		SEE ATTACHED			
Bruce Hill, President and CEO UtahAmerican Energy, Inc. P.O. Box 1077 Price, UT 84501 (435) 888-4000		Contacted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			



Section C: Areas Evaluated During Inspection (Check only those areas evaluated)

<input checked="" type="checkbox"/> Permit	<input checked="" type="checkbox"/> Self Monitoring Program	<input type="checkbox"/> Pretreatment	<input type="checkbox"/> MS4
<input checked="" type="checkbox"/> Records/Reports	<input type="checkbox"/> Compliance Schedule	<input type="checkbox"/> Pollution Prevention	
<input checked="" type="checkbox"/> Facility Site Review	<input type="checkbox"/> Laboratory	<input type="checkbox"/> Storm Water	
<input checked="" type="checkbox"/> Effluent/Receiving Waters	<input type="checkbox"/> Operations & Maintenance	<input type="checkbox"/> Combined Sewer Overflow	
<input checked="" type="checkbox"/> Flow Measurement	<input type="checkbox"/> Sludge Handling/Disposal	<input type="checkbox"/> Sanitary Sewer Overflow	

Section D: Summary of Findings/Comments

(Attach additional sheets of narrative and checklists, including Single Event Violation codes, as necessary)

SEV Codes	SEV Description
A 0 0 1 2	Numeric Effluent Violations

Name(s) and Signature(s) of Inspector(s) JEFF STUDENKA, ENVIRONMENTAL SCIENTIST 	Agency/Office/Phone and Fax Number(s) DWQ (801) 538-6779	Date: 2-13-09
Name and Signature of Management Q A Reviewer MIKE HERKIMER, MANAGER UPDES IES SECTION 	Agency/Office/Phone and Fax Number(s) DWQ (801) 538-6058	Date: 2/18/09

INSTRUCTIONS

Section A: National Data System Coding (i.e., ICIS)

Column 1: Transaction Code. Use N, C, or D for New, Change, or Delete. All inspections will be *new* unless there is an error in the data entered.

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Columns 12-17: Inspection Date. Insert the date entry was made into the facility. Use the year/month/day format (e.g., 04/10/01 = October 01, 2004).

Column 18: Inspection Type*. Use one of the codes listed below to describe the type of inspection:

A Performance Audit	X Toxics Inspection	6 IU Non-Sampling Inspection with Pretreatment
B Compliance Biomonitoring	Z Sludge - Biosolids	7 IU Toxics with Pretreatment
C Compliance Evaluation (non-sampling)	# Combined Sewer Overflow-Sampling	! Pretreatment Compliance (Oversight)@ Follow-up (enforcement)
D Diagnostic	\$ Combined Sewer Overflow-Non-Sampling	{ Storm Water-Construction-Sampling
F Pretreatment (Follow-up)	+ Sanitary Sewer Overflow-Sampling	} Storm Water-Construction-Non-Sampling
G Pretreatment (Audit)	& Sanitary Sewer Overflow-Non-Sampling	: Storm Water-Non-Construction-Sampling
I Industrial User (IU) Inspection	\ CAFO-Sampling	~ Storm Water-Non-Construction-Non-Sampling
J Complaints	= CAFO-Non-Sampling	< Storm Water-MS4-Sampling
M Multimedia	2 IU Sampling Inspection	- Storm Water-MS4-Non-Sampling
N Spill	3 IU Non-Sampling Inspection	> Storm Water-MS4-Audit
O Compliance Evaluation (Oversight)	4 IU Toxics Inspection	
P Pretreatment Compliance Inspection	5 IU Sampling Inspection with Pretreatment	
R Reconnaissance		
S Compliance Sampling		
U IU Inspection with Pretreatment Audit		

Column 19: Inspector Code. Use one of the codes listed below to describe the *lead agency* in the inspection.

A- State (Contractor)	O- Other Inspectors, Federal/EPA (Specify in Remarks columns)
B- EPA (Contractor)	P- Other Inspectors, State (Specify in Remarks columns)
E- Corps of Engineers	R- EPA Regional Inspector
J- Joint EPA/State Inspectors—EPA Lead	S- State Inspector
L- Local Health Department (State)	T- Joint State/EPA Inspectors—State lead
N- NEIC Inspectors	

Column 20: Facility Type. Use one of the codes below to describe the facility.

- 1- Municipal. Publicly Owned Treatment Works (POTWs) with 1987 Standard Industrial Code (SIC) 4952.
- 2- Industrial. Other than municipal, agricultural, and Federal facilities.
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- 5- Oil & Gas. Facilities classified with 1987 SIC 1311 to 1389.

Columns 21-66: Remarks. These columns are reserved for remarks at the discretion of the Region.

Columns 67-69: Inspection Work Days. Estimate the total work effort (to the nearest 0.1 work day), up to 99.9 days, that were used to complete the inspection and submit a QA reviewed report of findings. This estimate includes the accumulative effort of all participating inspectors; any effort for laboratory analyses, testing, and remote sensing; and the billed payroll time for travel and pre and post inspection preparation. This estimate does not require detailed documentation.

Column 70: Facility Evaluation Rating. Use information gathered during the inspection (regardless of inspection type) to evaluate the quality of the facility self-monitoring program. Grade the program using a scale of 1 to 5 with a score of 5 being used for very reliable self-monitoring programs, 3 being satisfactory, and 1 being used for very unreliable programs.

Column 71: Biomonitoring Information. Enter D for static testing. Enter F for flow through testing. Enter N for no biomonitoring.

Column 72: Quality Assurance Data Inspection. Enter Q if the inspection was conducted as follow-up on quality assurance sample results. Enter N otherwise.

Columns 73-80: These columns are reserved for regionally defined information.

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This section is self-explanatory except for "Other Facility Data," which may include new information not in the permit or PCS (e.g., new outfalls, names of receiving waters, new ownership, other updates to the record, SIC/NAICS Codes, Latitude/Longitude).

Section C: Areas Evaluated During Inspection

Check only those areas evaluated by marking the appropriate box. Use Section D and additional sheets as necessary. Support the findings, as necessary, in a brief narrative report. Use the headings given on the report form (e.g., Permit, Records/Repots) when discussing the areas evaluated during the inspection.

Section D: Summary of Findings/Comments

Briefly summarize the inspection findings. This summary should abstract the pertinent inspection findings, not replace the narrative report. Reference a list of attachments, such as completed checklists taken from the NPDES Compliance Inspection Manuals and pretreatment guidance documents, including effluent data when sampling has been done. Use extra sheets as necessary.

*Footnote: In addition to the inspection types listed above under column 18, a state may continue to use the following wet weather and CAFO inspection types until the state is brought into ICIS-NPDES: K: CAFO, V: SSO, Y: CSO, W: Storm Water 9: MS4. States may also use the new wet weather, CAFO and MS4 inspections types shown in column 18 of this form. The EPA regions are required to use the new wet weather, CAFO, and MS4 inspection types for inspections with an inspection date (DTIN) on or after July 1, 2005.

Water Compliance Inspection Report

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<div style="display: flex; justify-content: space-between;"> 21 66 </div>																						
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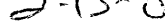
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INSPECTION PROTOCOL

UPDES Permit #: UT0025640 - West Ridge Mine
Inspection Type: Reconnaissance Inspection + Compliance Sampling
Inspection Date: February 3, 2009
Weather Conditions: Sunny and mild, ~ 40 °F.

Jeff Studenka of the Division of Water Quality (DWQ) met with Dave Shaver and Karla Knoop at the UtahAmerican Energy, Inc., West Ridge Mine (West Ridge) facility. The purpose for the site visit was to perform reconnaissance and compliance sampling inspections as a result of recent elevated total iron concentrations and coal fines in the mine water discharge.

FACILITY DESCRIPTION

Location: 794 North "C" Canyon Road, near East Carbon, Utah
Coordinates: Outfall 001 – 39° 36' 45" North latitude, 110° 26' 26" West longitude
Outfall 002 – 39° 36' 58" North latitude, 110° 26' 10" West longitude

Average Flow: ~ 1 MGD (Outfall 002, mine water discharge)

Receiving water: "C" Canyon Ephemeral Drainage → Grassy Trail Creek

Process: Underground coal mining operation utilizing long-wall technology. Water from the mine is conveyed to a below ground collection area, where it is then continuously pumped out of the mine and discharged to the surface via Outfall 002. Surface water runoff is conveyed to an above ground settling pond system with a single discharge point (Outfall 001). Outfall 001 has not discharged to date.

INSPECTION SUMMARY

This reconnaissance inspection was limited to outside the mine where the water collection and distribution systems are exposed. The two outfall locations were observed as well as the receiving waters of "C" Canyon Drainage. At the time of the inspection, the mine water discharge was the only flow in "C" Canyon and the discharge was not observed downstream in Grassy Trail Creek, which was dry. The discharge appeared to be slightly turbid and light gray in color with black coal fines deposited along the edges of the stream channel. As planned, DWQ collected discharge compliance grab samples @ 10:30 am from Outfall 002 for TDS, TSS, total iron, and oil & grease parameters and the results will be compared to the February 2009 DMR as soon as both are available. Photos were also collected and are attached herein with a photo log.

OBSERVATIONS

As noted above, the discharge appeared to be slightly turbid and light gray in color with black coal fines deposited along the edges of the stream channel downstream beyond the mining permit boundary.

DEFICIENCIES

Numeric effluent concentrations for total iron have exceeded the daily maximum permit limit of 1.3 mg/L for four of the previous six months and also total suspended solids (TSS) have exceeded the monthly average permit limit of 25 mg/L for five of the previous six months, both of which have triggered Significant Non-Compliance in EPA's ICIS data management system. This has been addressed under separate cover with a Notice of Violation (NOV) dated February 10, 2009.

REQUIREMENTS

1. Continue implementing your corrective action plan as we discussed to treat the mine water for excessive total iron and TSS concentrations.
2. With the recent NOV issued, please respond within 30 days as required and contact DWQ with any questions that you may have.
3. Continue to inform DWQ with updates of your corrective action plans as we discussed to eliminate the coal fines in the mine water discharge and along the stream channel downstream of Outfall 002.

PHOTO LOG

West Ridge Resources Coal Mine (UT0025640) 2-3-2009

Photo #1: View of discharging effluent outfall 001.

Photo #2: Looking downstream from outfall 001.

Photo #3: Sedimentation pond & outfall 002, facing southwest.

Photo #4: View of discharging effluent in "C" Canyon Drainage, just outside the main entrance gate.

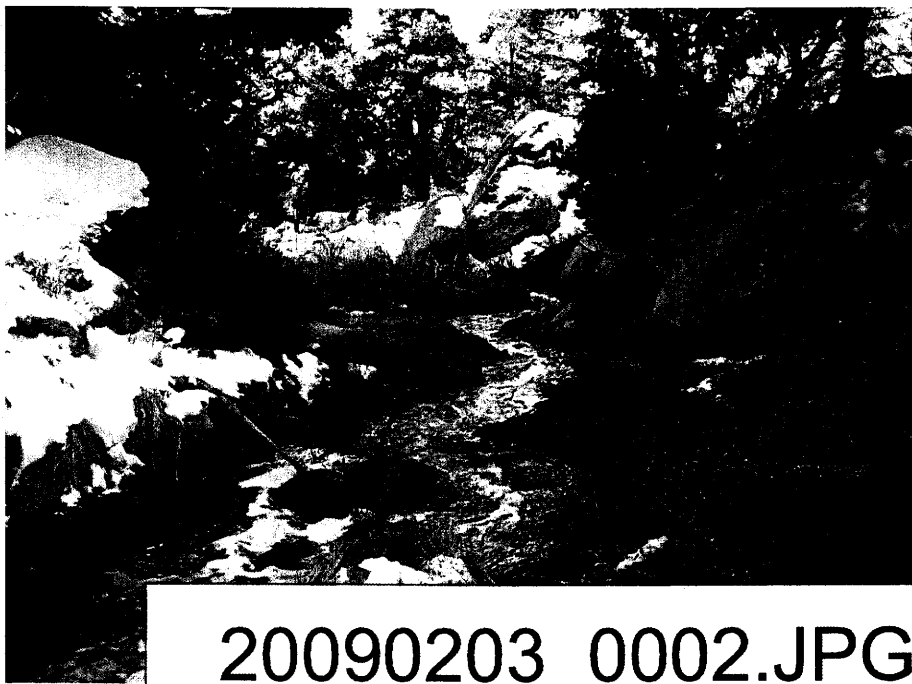
Photo #5: View of coal mine operations from main office building, facing northeast.

END (Photos taken by J. Studenka)

West Ridge Mine 2-3-2009



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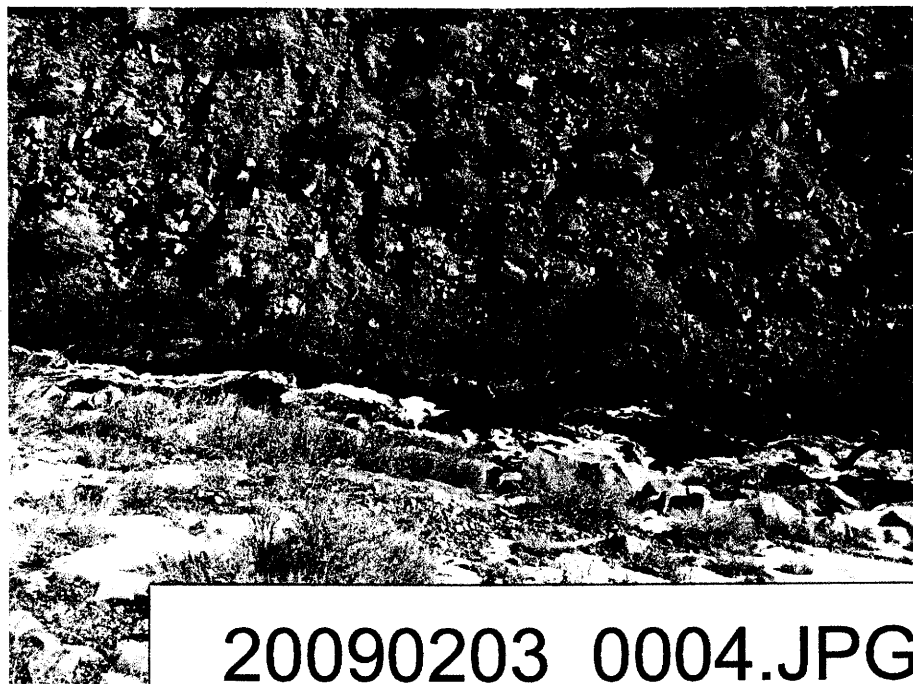


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West Ridge Mine 2-3-2009

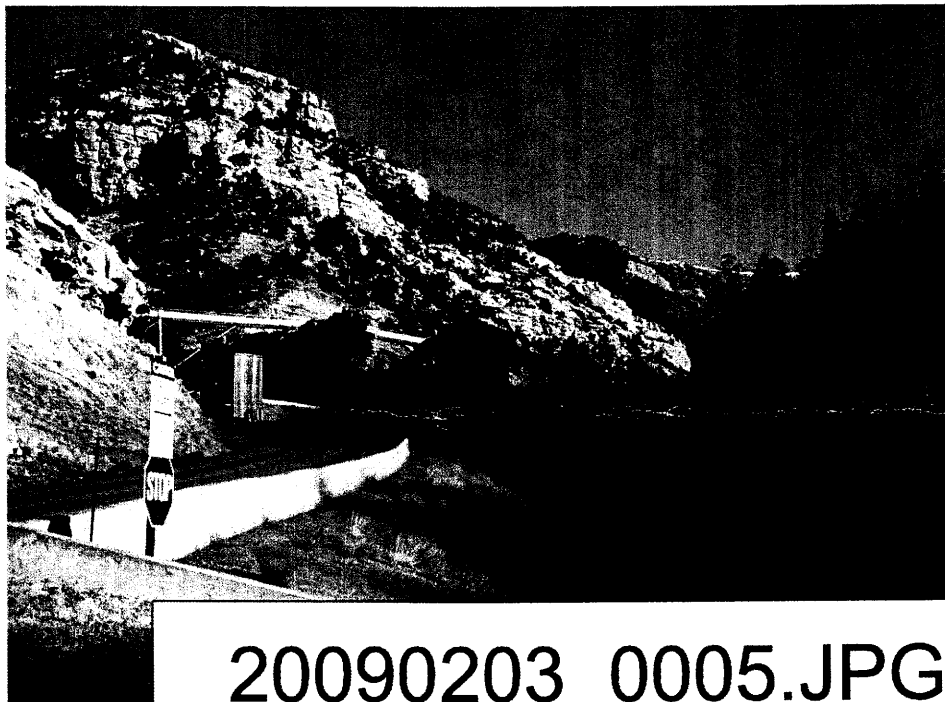


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West Ridge Mine 2-3-2009



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United States Environmental Protection Agency
Washington, D.C. 20460

Water Compliance Inspection Report

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Remarks 21 66					
Inspection Work Days [67][2] 69	Facility Self-Monitoring Evaluation Rating [4] 70	BI [N] 71	QA [N] 72	Reserved 73 74 75 80	

Section B: Facility Data

Name and Location of Facility Inspected (For industrial users discharging to POTW, also include POTW name and NPDES permit number) Crandall Canyon Mine (a.k.a. Genwal Resources, Inc.) UtahAmerican Energy, Inc. ~1.5 miles up Crandall Canyon off Hwy. 31 in Huntington Canyon NW of Huntington, UT	Entry Time/ Date 12:00 pm/2-3-2009	Permit Effective Date 12-1-2005
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) Karla Knoop, Hydrologist & Authorized Agent, jbr Environmental Consultants, Inc. phone (435) 637-9645, fax (435) 637-8679	Exit Time/ Date 12:45 pm/2-3-2009	Permit Expiration Date 11-30-2010
Name, Address of Responsible Official/Title/Phone and Fax Number Bruce Hill, President UtahAmerican Energy, Inc. P.O. Box 1077 Price, UT 84501 (435) 888-4008	Other Facility Data (e.g., SIC NAICS, and other descriptive information) Bituminous Coal Underground Mining Facility SIC Code 1222 NAICS 212112 SEE ATTACHED	
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A- State (Contractor)	O- Other Inspectors, Federal/EPA (Specify in Remarks columns)
B- EPA (Contractor)	P- Other Inspectors, State (Specify in Remarks columns)
E- Corps of Engineers	R- EPA Regional Inspector
J- Joint EPA/State Inspectors—EPA Lead	S- State Inspector
L- Local Health Department (State)	T- Joint State/EPA Inspectors—State lead
N- NEIC Inspectors	

Column 20: Facility Type. Use one of the codes below to describe the facility.

- 1- Municipal. Publicly Owned Treatment Works (POTWs) with 1987 Standard Industrial Code (SIC) 4952.
- 2- Industrial. Other than municipal, agricultural, and Federal facilities.
- 3- Agricultural. Facilities classified with 1987 SIC 0111 to 0971.
- 4- Federal. Facilities identified as Federal by the EPA Regional Office.
- 5- Oil & Gas. Facilities classified with 1987 SIC 1311 to 1389.

Columns 21-66: Remarks. These columns are reserved for remarks at the discretion of the Region.

Columns 67-69: Inspection Work Days. Estimate the total work effort (to the nearest 0.1 work day), up to 99.9 days, that were used to complete the inspection and submit a QA reviewed report of findings. This estimate includes the accumulative effort of all participating inspectors; any effort for laboratory analyses, testing, and remote sensing; and the billed payroll time for travel and pre and post inspection preparation. This estimate does not require detailed documentation.

Column 70: Facility Evaluation Rating. Use information gathered during the inspection (regardless of inspection type) to evaluate the quality of the facility self-monitoring program. Grade the program using a scale of 1 to 5 with a score of 5 being used for very reliable self-monitoring programs, 3 being satisfactory, and 1 being used for very unreliable programs.

Column 71: Biomonitoring Information. Enter D for static testing. Enter F for flow through testing. Enter N for no biomonitoring.

Column 72: Quality Assurance Data Inspection. Enter Q if the inspection was conducted as follow-up on quality assurance sample results. Enter N otherwise.

Columns 73-80: These columns are reserved for regionally defined information.

Section B: Facility Data

This section is self-explanatory except for "Other Facility Data," which may include new information not in the permit or PCS (e.g., new outfalls, names of receiving waters, new ownership, other updates to the record, SIC/NAICS Codes, Latitude/Longitude).

Section C: Areas Evaluated During Inspection

Check only those areas evaluated by marking the appropriate box. Use Section D and additional sheets as necessary. Support the findings, as necessary, in a brief narrative report. Use the headings given on the report form (e.g., Permit, Records/Reports) when discussing the areas evaluated during the inspection.

Section D: Summary of Findings/Comments

Briefly summarize the inspection findings. This summary should abstract the pertinent inspection findings, not replace the narrative report. Reference a list of attachments, such as completed checklists taken from the NPDES Compliance Inspection Manuals and pretreatment guidance documents, including effluent data when sampling has been done. Use extra sheets as necessary.

*Footnote: In addition to the inspection types listed above under column 18, a state may continue to use the following wet weather and CAFO inspection types until the state is brought into ICIS-NPDES: K: CAFO, V: SSO, Y: CSO, W: Storm Water 9: MS4. States may also use the new wet weather, CAFO and MS4 inspections types shown in column 18 of this form. The EPA regions are required to use the new wet weather, CAFO, and MS4 inspection types for inspections with an inspection date (DTIN) on or after July 1, 2005.

Water Compliance Inspection Report

Section A: National Data System Coding (i.e., ICIS)

[illegible]

Section B: Facility Data

Name and Location of Facility Inspected (For industrial users discharging to POTW, also include POTW name and NPDES permit number)		Entry Time/ Date 12:00 pm/2-3-2009		Permit Effective Date 12-1-2005	
Crandall Canyon Mine (a.k.a. Genwal Resources, Inc.) UtahAmerican Energy, Inc. ~1.5 miles up Crandall Canyon off Hwy. 31 in Huntington Canyon NW of Huntington, UT		Exit Time/ Date 12:45 pm/2-3-2009		Permit Expiration Date 11-30-2010	
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s)		Other Facility Data (e.g., SIC NAICS, and other descriptive information)			
Karla Knoop, Hydrologist & Authorized Agent, jbr Environmental Consultants, Inc. phone (435) 637-9645, fax (435) 637-8679		Bituminous Coal Underground Mining Facility SIC Code 1222 NAICS 212112			
Name, Address of Responsible Official/Title/Phone and Fax Number		SEE ATTACHED			
Bruce Hill, President UtahAmerican Energy, Inc. P.O. Box 1077 Price, UT 84501 (435) 888-4008		Contacted <div> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </div>			



Section C: Areas Evaluated During Inspection (Check only those areas evaluated)

<input checked="" type="checkbox"/> Permit	<input checked="" type="checkbox"/> Self Monitoring Program	<input type="checkbox"/> Pretreatment	<input type="checkbox"/> MS4
<input checked="" type="checkbox"/> Records/Reports	<input type="checkbox"/> Compliance Schedule	<input type="checkbox"/> Pollution Prevention	
<input checked="" type="checkbox"/> Facility Site Review	<input type="checkbox"/> Laboratory	<input type="checkbox"/> Storm Water	
<input checked="" type="checkbox"/> Effluent/Receiving Waters	<input type="checkbox"/> Operations & Maintenance	<input type="checkbox"/> Combined Sewer Overflow	
<input checked="" type="checkbox"/> Flow Measurement	<input type="checkbox"/> Sludge Handling/Disposal	<input type="checkbox"/> Sanitary Sewer Overflow	

Section D: Summary of Findings/Comments

(Attach additional sheets of narrative and checklists, including Single Event Violation codes, as necessary)

SEV Codes	SEV Description
<input type="text"/>	
<input type="text"/>	
<input type="text"/>	
<input type="text"/>	

Name(s) and Signature(s) of Inspector(s) JEFF STUDENKA, ENVIRONMENTAL SCIENTIST 	Agency/Office/Phone and Fax Number(s) DWQ (801) 538-6779	Date: 2-13-09
Name and Signature of Management Q A Reviewer MIKE HERKIMER, MANAGER UPDES IES SECTION 	Agency/Office/Phone and Fax Number(s) DWQ (801) 538-6058	Date: 2/18/09

INSTRUCTIONS

Section A: National Data System Coding (*i.e.*, ICIS)

Column 1: Transaction Code: Use N, C, or D for New, Change, or Delete. All inspections will be *new* unless there is an error in the data entered.

Columns 3-11: NPDES Permit No. Enter the facility's NPDES permit number - third character in permit number indicates permit type for U=unpermitted, G=general permit, etc. (*Use the Remarks columns to record the State permit number, if necessary.*)

Columns 12-17: Inspection Date. Insert the date entry was made into the facility. Use the year/month/day format (e.g., 04/10/01 = October 01, 2004).

Column 18: Inspection Type*. Use one of the codes listed below to describe the type of inspection:

A Performance Audit	X Toxics Inspection	6 IU Non-Sampling Inspection with Pretreatment
B Compliance Biomonitoring	Z Sludge - Biosolids	7 IU Toxics with Pretreatment
C Compliance Evaluation (non-sampling)	# Combined Sewer Overflow-Sampling	! Pretreatment Compliance (Oversight)@ Follow-up (enforcement)
D Diagnostic	\$ Combined Sewer Overflow-Non-Sampling	{ Storm Water-Construction-Sampling
F Pretreatment (Follow-up)	+ Sanitary Sewer Overflow-Sampling	} Storm Water-Construction-Non-Sampling
G Pretreatment (Audit)	& Sanitary Sewer Overflow-Non-Sampling	: Storm Water-Non-Construction-Sampling
I Industrial User (IU) Inspection	\ CAFO-Sampling	~ Storm Water-Non-Construction-Non-Sampling
J Complaints	= CAFO-Non-Sampling	< Storm Water-MS4-Sampling
M Multimedia	2 IU Sampling Inspection	- Storm Water-MS4-Non-Sampling
N Spill	3 IU Non-Sampling Inspection	> Storm Water-MS4-Audit
O Compliance Evaluation (Oversight)	4 IU Toxics Inspection	
P Pretreatment Compliance Inspection	5 IU Sampling Inspection with Pretreatment	
R Reconnaissance		
S Compliance Sampling		
U IU Inspection with Pretreatment Audit		

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INSPECTION PROTOCOL

UPDES Permit #: UT0024368 – Genwal Resources Crandall Canyon Mine
Inspection Type: Reconnaissance Inspection + Compliance Sampling Inspection
Inspection Date: February 3, 2009
Weather Conditions: Sunny and mild, ~ 40 °F.

Jeff Studenka of the Division of Water Quality (DWQ) visited the UtahAmerican Energy, Inc., Crandall Canyon Mine Facility (a.k.a. Genwal Resources, Inc.) and met with Karla Knoop, authorized agent for the facility. The purpose for the site visit was to perform reconnaissance and compliance sampling inspections as a result of recent elevated total iron concentrations in the mine water discharge.

FACILITY DESCRIPTION

Location: Within Manti-LaSal National Forest, approximately 1.5 miles up Crandall Canyon, off Hwy. 31 in Huntington Canyon, near Huntington, Utah

Coordinates: Outfall 001 – 39° 27' 38" latitude, -111° 09' 38" longitude
Outfall 002 – 39° 27' 38" latitude, -111° 09' 59" longitude

Average Flow: ~ 0.8 MGD (Outfall 002)

Receiving water: Crandall Creek to Huntington Creek

Process: Former underground coal mining operation. Water from the inactive mine is gravity conveyed to below ground settling areas, where it is then piped out of the mine and discharged to the Crandall Creek culvert (Outfall 002). Surface water is conveyed to an above ground settling pond with a discharge point (Outfall 001) to Crandall Creek.

INSPECTION SUMMARY

There were no deficiencies noted during the last inspection for follow up. This inspection was limited to outside the mine where the water collection and distribution systems are exposed. At the time of the inspection, the sedimentation pond contained a considerable amount of ice and snow, but was well below discharge levels. The outfall locations were observed as well as the receiving waters of Crandall Creek, which was flowing mostly clear and steady at the time of the inspection, however some rust-colored deposits were observed immediately adjacent to the Crandall Canyon culvert and Outfall 002, which is likely from the elevated iron in the effluent discharge. As planned, DWQ collected discharge compliance grab samples @ 12:10 pm from Outfall 002 for TDS, TSS, total iron, and oil & grease parameters and the results will be compared to the February 2009 DMR as soon as both are available. Photos were also collected and are attached herein with a photo log.

DEFICIENCIES

Numeric effluent concentrations for total iron have exceeded the permit limit of 1.3 mg/L for four of the previous six months, which has triggered Significant Non-Compliance in EPA's ICIS data management system. This is being addressed under separate cover with a Notice of Violation (NOV), as required.

REQUIREMENTS

1. Continue implementing your corrective action plan as we discussed to treat the mine water for excessive total iron concentrations and keep DWQ informed of your progress.
2. Upon receipt of the forthcoming NOV, please respond within 30 days as required and contact DWQ with any questions that you may have.

PHOTO LOG

West Ridge Resources Coal Mine (UT0025640) 2-3-2009

Photo #1: Partial view of sedimentation pond former coal mine operations, facing west.

Photo #2: View of discharging effluent into Crandall Canyon Creek.

Photo #3: View of former coal mine operations, facing west.

Photo #4: View of mine water discharge sampling station, facing east.

END (Photos taken by J. Studenka)

Crandall Canyon Mine 2-3-2009

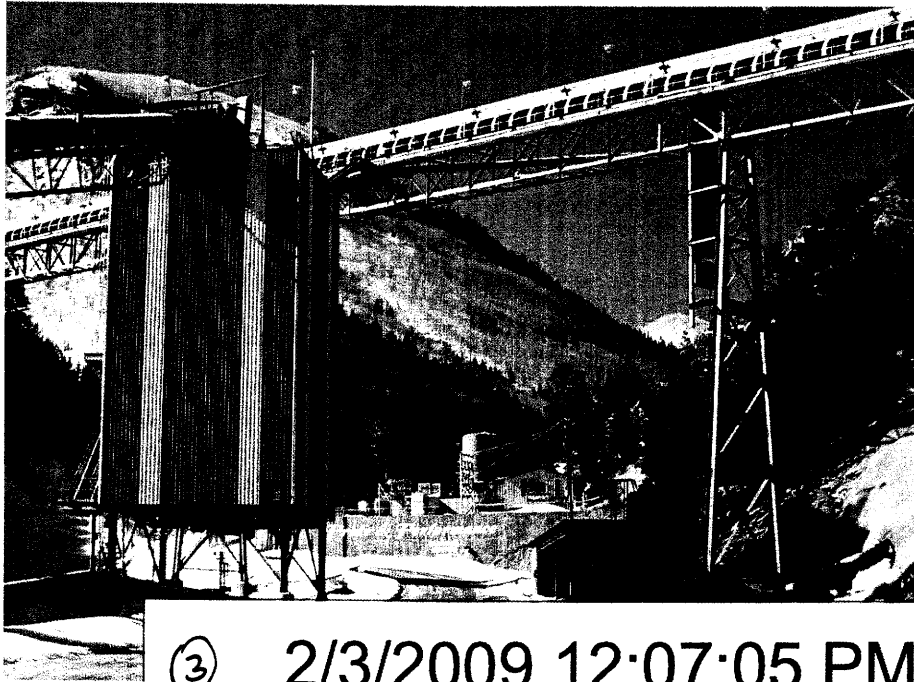


① 2/3/2009 12:03:37 PM



② 2/3/2009 12:03:49 PM

Crandall Canyon Mine 2-3-2009



③ 2/3/2009 12:07:05 PM



④ 2/3/2009 12:22:59 PM